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generating a second current, wherein the second current is proportional to
the input signal when the input signal has the second polarity, and approximately equal to
zero when the input signal has the first polarity;
generating a third current proportional to the first current;
generating a fourth current proportional to the second current;
applying the first and fourth currents to a first terminal of an inductor; and
applying the second and third currents to a second terminal of the
inductor,
wherein a capacitance is between the first terminal of the inductor and the
second terminal of the inductor, and the inductor and capacitance form a tank circuit, and
wherein the input signal alternates between the first polarity and the
second polarity at a first frequency, the tank circuit has a resonant frequency of a second
frequency, and the first frequency and second frequency are approximately equal.
4. (Amended) The method of claim 3 wherein the first current and
the second current are generated by NMOS devices.

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1 6. (Amended) A method of buffering an input signal comprising: receiving the input signal, wherein the input signal alternates between a 2 3 first polarity and a second polarity; 4 generating a first current, wherein the first current is proportional to the 5 input signal when the input signal has the first polarity, and approximately equal to zero 6 when the input signal has the second polarity; generating a second current, wherein the second current is proportional to 7 8 the input signal when the input signal has the second polarity, and approximately equal to 9 zero when the input signal has the first polarity; 10 generating a third current proportional to the first current; 11 generating a fourth current proportional to the second current; applying the first and fourth currents to a first terminal of an inductor; and 12

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applying the second and third currents to a second terminal of the inductor,

wherein a capacitance is between the first terminal of the inductor and the second terminal of the inductor, and the inductor and capacitance form a tank circuit, and

wherein the first current is geometrically proportional to the input signal
when the input signal has the first polarity, and the second current is geometrically

19 proportional to the input signal when the input signal has the second polarity.

A circuit for buffering RF signals comprising: 1 17. (Amended) a first device coupled between a first output node and a first supply node, 2 3 having a control electrode coupled to a first input node; a second device coupled between a second output node and the first supply 4 5 node, having a control electrode coupled to a second input node; б a third device coupled between a second supply node and the first output 7 node, having a control electrode coupled to the second output node;

a fourth device coupled between the second supply node and the second output node, having a control electrode coupled to the first output node;

a fifth device coupled between the first device and the first output node;

a sixth device coupled between the second device and the second output

12 node; and

an inductor coupled between the first output node and the second output

14 node.

1 18. (Amended) The circuit of claim 17 wherein the first device and 2 the second device are NMOS devices, and the third device and fourth device are PMOS

3 devices.

1 23. (Amended) A method of buffering an RF signal comprising:
2 receiving the RF signal, wherein the RF signal alternates between a first
3 polarity and a second polarity;



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4	generating a first current, wherein the first current is proportional to the
5	RF signal when the RF signal has the first polarity, and approximately equal to zero when
6	the RF signal has the second polarity;
7	generating a second current, wherein the second current is proportional to
8	the RF signal when the RF signal has the second polarity, and approximately equal to
9	zero when the RF signal has the first polarity,
10	using the first current to generate a third current, the third current
11	proportional to the first current;
12	using the second current to generate a fourth current, the fourth current
13	proportional to the second current;
14	applying the first and fourth currents to a first terminal of an inductor; and
15	applying the second and third currents to a second terminal of the
16	inductor,
17	wherein a capacitance is coupled between the first terminal of the inductor
18	and the second terminal of the inductor, and the inductor and capacitance form a tank
19	circuit.
1	24. (Amended) The method of claim 23 wherein the RF signal
2	alternates between the first polarity and the second polarity at a first frequency, the tank
3	circuit has a resonant frequency of a second frequency, and the first frequency and
4	second frequency are approximately equal.
1	25. (Amended) A method of buffering an RF signal comprising:
2	receiving the RF signal, wherein the RF signal alternates between a first
3	polarity and a second polarity;
4	generating a first current, wherein the first current is proportional to the
5	RF signal when the RF signal has the first polarity, and approximately equal to zero when
6	the RF signal has the second polarity;



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(Amended)

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7	generating a second current, wherein the second current is proportional to
. 8	the RF signal when the RF signal has the second polarity, and approximately equal to
9	zero when the RF signal has the first polarity;
10	using the first current to generate a third current, the third current
11	proportional to the first current;
12	using the second current to generate a fourth current, the fourth current
13	proportional to the second current;
14	applying the first and fourth currents to a first terminal of an inductor; and
15	applying the second and third currents to a second terminal of the
16	inductor,
17	wherein the first current is geometrically proportional to the RF signal
18	when the RF signal has the first polarity, and the second current is geometrically
19	proportional to the RF signal when the RF signal has the second polarity.

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a first device coupled between a first output node and a first supply node, having a control electrode configured to receive an RF signal, and further configured to operate near cutoff in the absence of the RF signal; a second device coupled between a second output node and the first supply node, having a control electrode configured to receive a complement of the RF signal, and further configured to operate near cutoff in the absence of the complement of the RF signal; a third device coupled between a second supply node and the first output node, having a control electrode coupled to the second output node; a fourth device coupled between the second supply node and the second output node, having a control electrode coupled to the first output node; a fifth device coupled between the first device and the first output node; a sixth device coupled between the second device and the second output

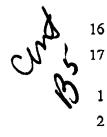
An RF amplifier comprising:

node; and

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an inductor coupled between the first output node and the second output

node.

28. (Amended) The circuit of claim 27 wherein the first device and

the second device are NMOS devices, and the third device and fourth device are PMOS

3 devices.